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**Table 1.** Mean values of the variables measured during the three trials

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2	4	8	16	32	64	128	256	512	1024	2048	4096	8192	16384	32768	65536	131072	262144	524288	1048576
3	9	27	81	243	729	2187	6561	19683	59049	177147	531441	1594323	4782969	14348907	43046721	129139161	387430353	1162291059	3486873177
4	16	64	256	1024	4096	16384	65536	262144	1048576	4194304	16777216	67108864	268435456	1073743872	4294967040	17179869440	68813926400	274526279680	1098016768000
5	25	125	625	3125	15625	78125	390625	1953125	9765625	48828125	244140625	1220703125	6103515625	30517578125	152587890625	762939453125	3814697265625	19073486328125	95367431640625
6	36	216	1296	7776	46656	279936	1679616	10077696	60466176	362793024	2176778176	13060669056	78364014720	470184088320	2821104529920	16926627179520	101559763077120	609358578462720	3656151290772480
7	49	343	2401	16807	117649	823543	5724253	39959721	279613849	1957316943	13701218601	95918529207	671429704449	4700007931143	32900055518001	230300388626007	1612102719382049	11284719035674343	78983033251720401
8	64	512	4096	32768	262144	2097152	16777216	134217728	1073743872	8589934592	68310980736	546487845888	4371902767104	34975222136832	279801777094656	2238414216757248	17907313734058048	143258509872464384	1146068078979715072
9	81	729	6561	59049	531441	4782969	43046721	387430353	3486873177	31381690523	282395229701	2541557067309	22876013705781	205884123392029	1852957110528261	16676613994754349	150089525952789141	1359805733575102269	12418251602175920421
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*(The following text is extremely faint and largely illegible due to low contrast and blurring. It appears to be a list or index of items, possibly related to the "List of Figures" mentioned in the caption.)*

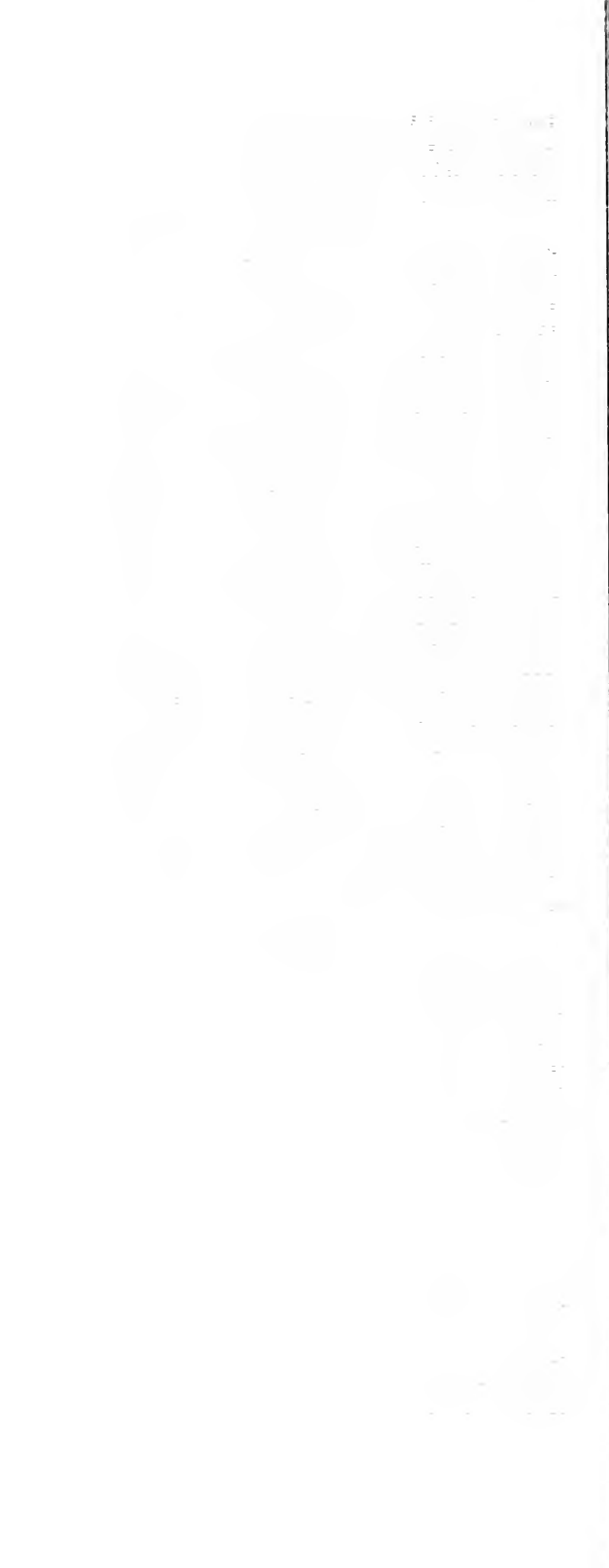
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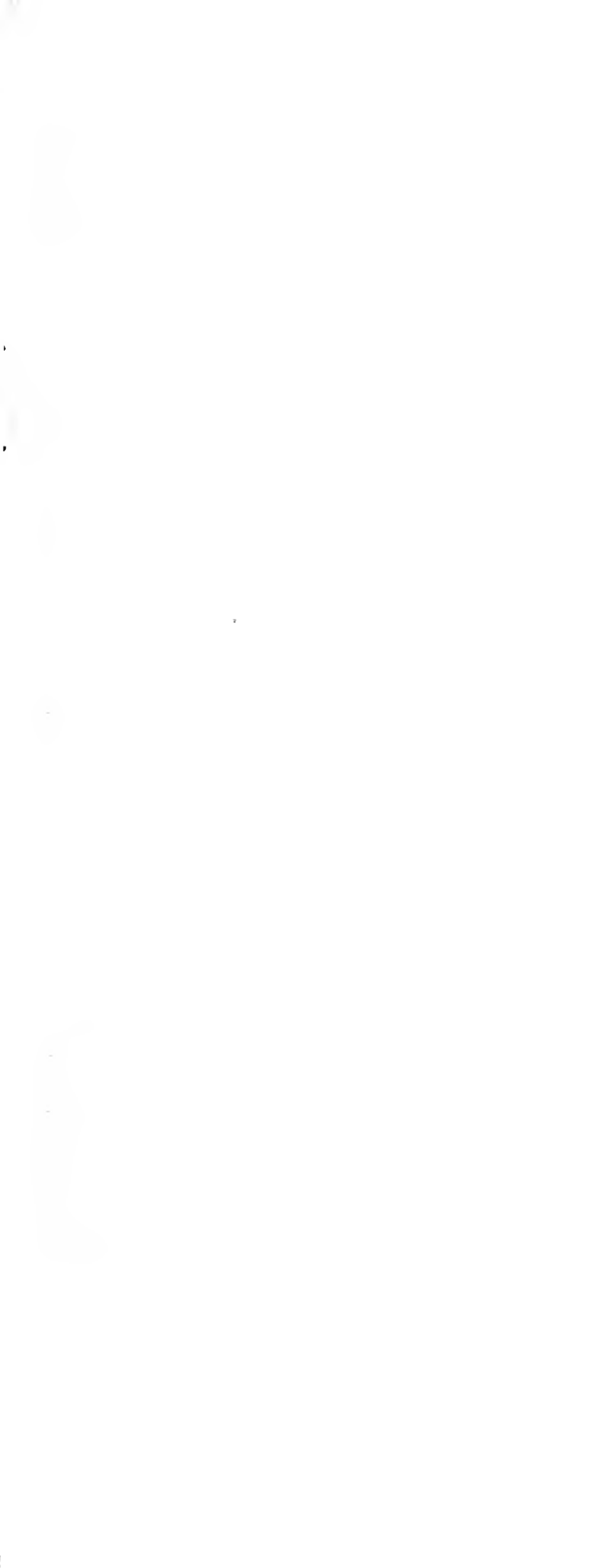






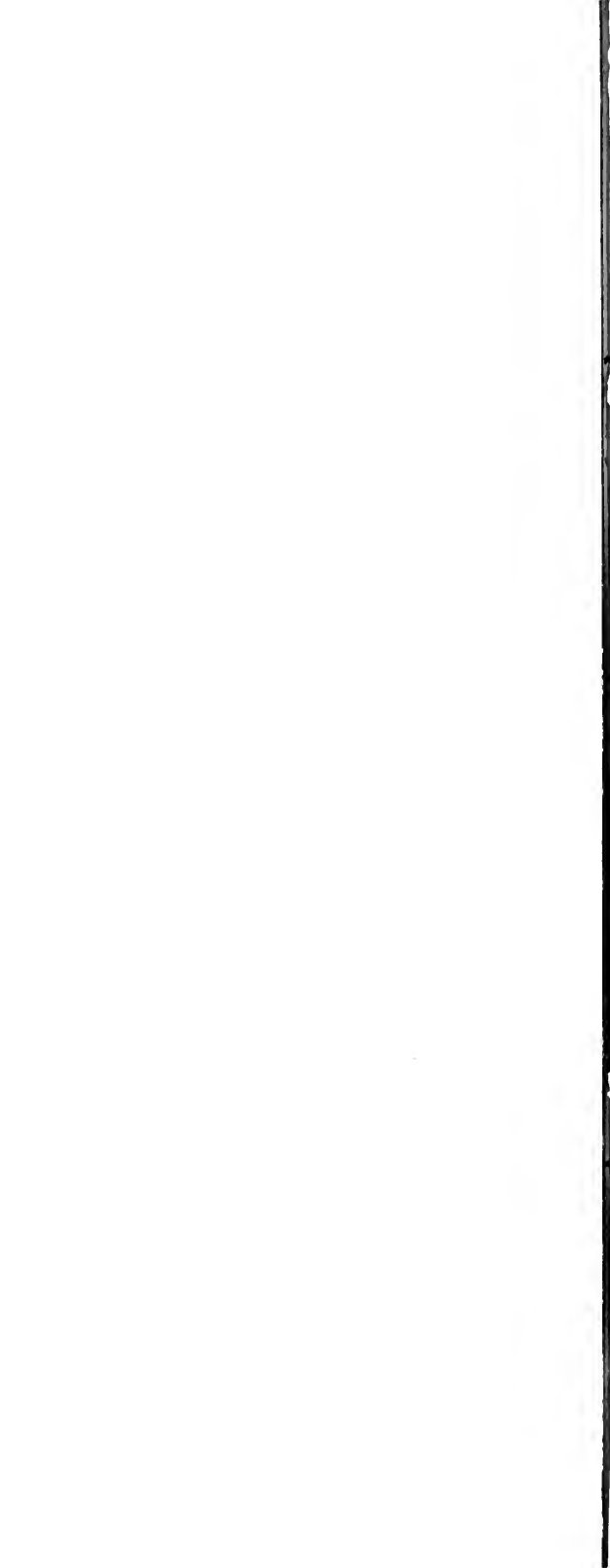


















*Journal of Management Inquiry* 18(6)p. 709-724  
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308. BRITISH EMERALD, 1894, Vol. 1, Page 10.

Services: Lieutenant, United States Army, June, 1898. Commanded the 4th Co. at San Juan, Sandy Hook and Lower Merion. Detached from command of the latter and ordered to command the 1st Infantry, 1st Brigade, 1st Division, 1st Army Corps, New York, September, 1898.

104. ADKINS, JOHN (DECEASED) (1911-1918)  
Lieutenant, late 10th Airborne Division.

Service of the General Court in the summer of 1853.  
the 11th day of July 1853.

U.S. AIRMAIL PERMIT NO. 701, Columbia, S.C.  
United States Post Office

Services: First Lieutenant, 25th United States Infantry, 1890-1891; 30th Infantry, June 30, 1891; Cavalry, United States Infantry, June 30, 1891; transports, 1891-1892; Cavalry, August 1--September 21, 1892.

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Yard, New York, until September 26; Marine Barracks, Norfolk, Va., until December 13, 1898; Naval Station, Havana, Cuba, until February 7, 1899.

574. ANDREWS, CHARLES ALLEN (563). Major United States Volunteers.

Services: Captain 14th Regiment, New York Volunteer Infantry, May 13; Major, June 13, 1898; served with regiment until muster out October 27, 1898.

731. ANDREWS, CHARLES LEE (514). Ensign, late United States Navy.

Services: Ensign, March, April 30 to September 2, 1898; Northern Patrol Squadron; in blockading and bombarding Santiago de Cuba; at Guantanamo, Caimanera, Cienfuegos, Cosilda and Isle of Pines, 1898.

561. ANDREWS, CHAMPE SEABURY (552). Captain United States Volunteers.

Services: Captain 36 Regiment Tennessee Volunteer Infantry; Judge Advocate of General Court Martial, August 1, 1898, and October 27, 1898; detailed as S. R. R. O. June 2, 1898, headquarters 36 Army Corps.

323. ARMS, FRANK THORNTON (268). Paymaster United States Navy.

Services: Paymaster *Danish* throughout the war; was on the blockades off Havana, Cienfuegos and the Isle of Pines, and at the bombardment of San Juan, P. R., on May 12, 1898.

168. ARMSTRONG, GEORGE FERGUESON (168). Lieutenant United States Volunteers.

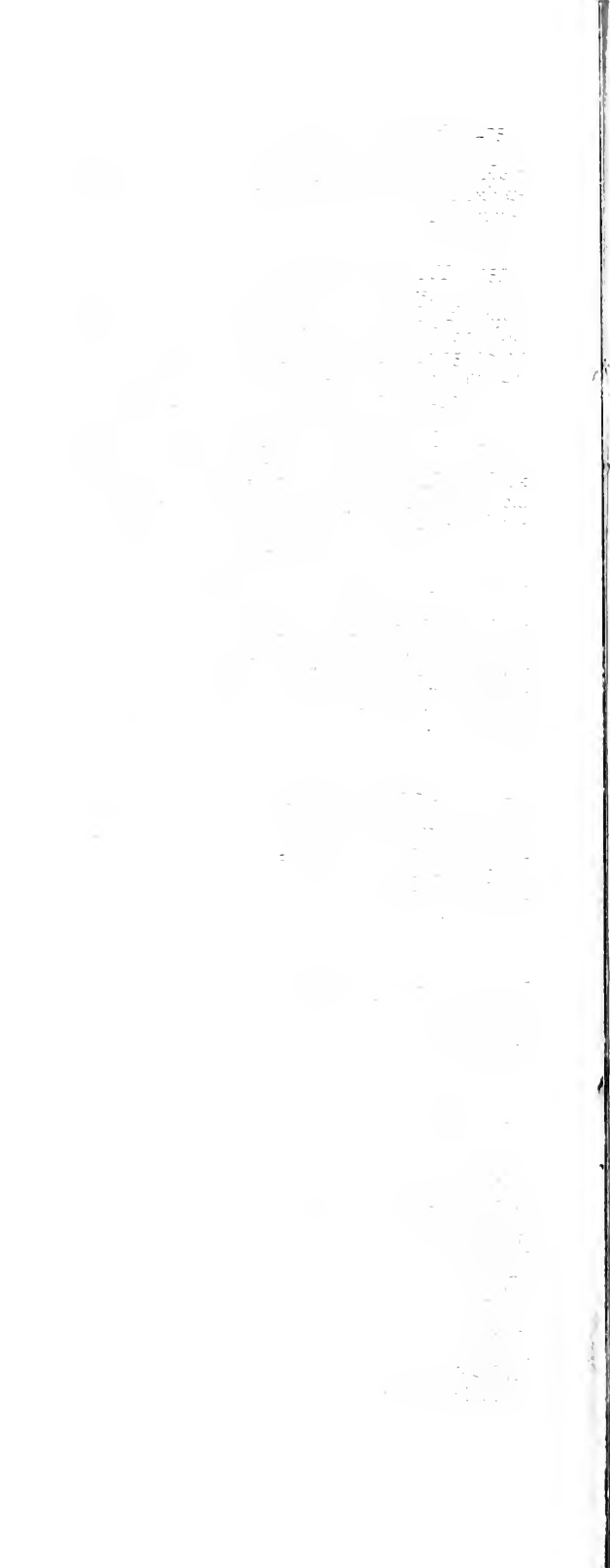
Services: Second Lieutenant of Artillery, Light Battery "E," Georgia; in Camp Griffen, Georgia, May 15, 1898; Chickamauga Park, June 15 to September 8; Griffen, Ga., September 8 to October 17, 1898.

642. ARMSTRONG, SAMUEL TREAT (493). Major and Surgeon United States Volunteers.

Services: Acting assistant surgeon United States Army, General Hospital, Key West, Fla., April 19, 1898; major and brigade surgeon United States Volunteers, June 4, 1898; chief surgeon Department Puerto Principe, Cuba; chief surgeon District Negros, Department Visayas, P. I., and chief surgeon Third District, Department Southern Luzon, P. I.

69. AUSTIN, ELMORE FARRINGTON (69). Captain United States Volunteers.

Services: Captain Company "L," 71st Regiment, New York Volunteer Infantry, May 10 to November 15, 1898; participated in engagements at Las Guasimas, June 24, 1898; battle of San Juan, July 1, 2 and 3, and the bombardment of Santiago de Cuba, July 10 and 11, 1898.



374. BROWN, HENRY (1855). Captain United States Volunteers.  
Services: Private, Company "C," 3d Regiment New York Volunteer Infantry, May 1, 1898; First Lieutenant, May 5; Captain and assistant surgeon, July, 1898, with rank from May 5; surgeon, surgeon of the regiment, during the summer of 1898; service of regiment, Cuba, from August, 1898, to November, 1898; Hospital, San Fernando, P.R.

375. BROWN, JOHN (1851). Major United States Volunteers.  
Services: Major and brigade surgeon United States Volunteers, June 18 to October 1, 1898; in charge of the service, staff of the United States General Hospital, Chickamauga, Ga.; chief of the medical corps in Washington, D. C., and in the Philippines.

376. BROWN, GEORGE E. (1861). Captain United States Volunteers.  
Services: Lieutenant, 1st to 3d from May 18 to June 1, 1898; Captain, June 1 to June 1, 1898; in charge of the service, staff of the United States General Hospital, Chickamauga, Ga.

377. BROWN, WILLIAM SCHUMER (1861). Captain United States Volunteers.  
Services: Lieutenant, 1st to 3d from May 18 to June 1, 1898; in charge of the service, staff of the United States General Hospital, Chickamauga, Ga.

378. BROWN, JOHN (1861). Captain United States Volunteers.  
Services: Lieutenant, 1st to 3d from May 18 to June 1, 1898; in charge of the service, staff of the United States General Hospital, Chickamauga, Ga.

379. BROWN, EDWARD (1861). Lieutenant United States Volunteers.  
Services: Second Lieutenant, 3d Regiment New Jersey Volunteer Infantry, May 10, 1898; First Lieutenant, September, 1898; in camp at Jacksonville, Fla., and Camp Beach.

380. BEULINGER, LYLE FREDERICK (1861). Captain United States Volunteer Engineers.

Services: Captain, Company "C," 2d Battalion 3d United States Volunteer Engineers; had charge of and entered the survey of the inner harbor of Cienfuegos.

381. BROWN, JOHN PHILIP (1861). Captain United States Volunteers.

Services: Second Lieutenant, 12th Regiment New York Volunteer Infantry, May 12; First Lieutenant, May 16; Captain, Company "G," 2d Battalion, 27, 1898; recruiting officer New York City from June 12 to July 2, 1898; in Cuba with regiment from January 1, 1899, to March 21, 1899.





Services: Lieutenant Commander *Batum* \* and *Charleston*; received surrender of Guam June 21, 1898; served on the blockade of Manila and was present at its capitulation August 13, 1898; Captain of the Port of Manila from America's occupation October, 1898, to March 28, 1901.

305. \*BRECKINRIDGE, JOSEPH CABELL (250), Major General United States Army, retired.

Services: Major General of Volunteers; was on the scene of Las Guasimas fight and with General Lawton's command during the subsequent night march and during the attack on El Caney; with General Wheeler at San Juan Hill; July 31, 1898, was assigned to the command of Separate Army at Camp Geo. H. Thomas, Ga.; October 7 was ordered to command the 1st Corps, with headquarters at Lexington, Ky. Commanded 40,127 men and 31½ regiments of all arms of the service, and inspected 70,266 men and 74½ regiments during the Spanish War. Was promoted to Major General, Regular Army, April 11, 1903, and retired at own request after over forty years' service.

392. BREESE, CHARLES PARKER (470), Captain United States Volunteer Engineers.

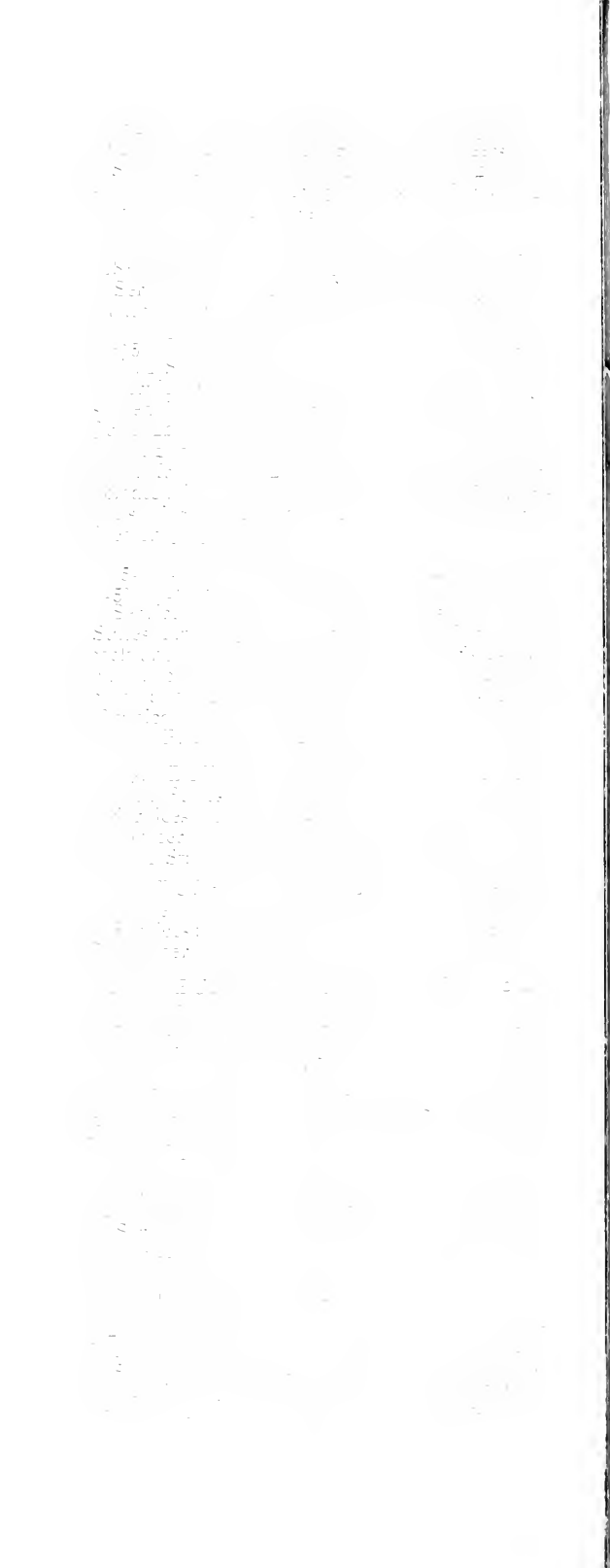
Services: Captain Company "E." 1st United States Volunteer Engineers.

76. BRETT, LLOYD M. (76), Captain United States Army.

Services: Captain Troop "F," 2d Cavalry, at Chickamauga Park, Ga.; Mobile, Ala., and at Tampa, Fla., in 1898; participated in the battle of El Caney July 1 and San Juan July 2-3, 1898; was Provost Marshal of the 5th Army Corps July 5 until August 23, 1898; commanded the 100 picked men that represented the American Army at the surrender of General Toral and the Spanish forces July 17, 1898. Major 31st Infantry, United States Volunteers, July 5, 1899; Lieutenant Colonel 31st Infantry, United States Volunteers, May 31, 1900, until mustered out, June 18, 1901; served in the Philippine Islands during the insurrection from November, 1899 to May 18, 1901.

831. BRUNNER, ROBERT A. (346), Lieutenant United States Volunteers.

Services: Second Lieutenant 2d Regiment New Jersey Volunteer Infantry; in camp at Sea Girt, N. J., May 1 to June 1; Jacksonville, Fla., and Pablo Beach to September 1; Sea Girt and home station to November 17, 1898, when mustered out with regiment.



361. CAMP, WALTER TRUMBULL (201), Paymaster, United States Navy.

Services: Ensign *Montevik*, stationed at Portland, Me.

645. CAMPBELL, HECTOR RONALD (489), Lieutenant in the United States Navy.

Services: Lieutenant (J. G.) on the *St. Louis* during the war with Spain.

414. CAPEHART, EDWARD EVERELL (350), Lieutenant, Commander United States Navy.

Services: Lieutenant *San Mark* during the war with Spain; participated in engagements in Maranzas, Manila, San Juan, P. R., and in all the attacks on the forts at Santiago, and took part in the battle of July 3, 1898. Member of the "Mainwight" Board to examine wrecks after fight. On duty at Torpedo Station, Newport, R. I., from June, 1890, until February 16, 1901.

165. GARDEN, GODFREY LYNET (165), Lieutenant United States Revenue Cutter Service.

Services: Lieutenant and Ordnance Officer *Manning* throughout the war with Spain; on blockade duty before Havana, Santiago, Matanzas Manzanillo, Bahia Honda and Cienfuegos; on guard duty at base of supplies; scout service off Bahia Honda, and in guard fleet conveying General Shafter's troops to Cuba. Engagements: *Tarinas*, May 12; engaged Spanish vessel off Manila, May 13; bombardment Santa Cruz Del Sur, July 20; on August 15, while on Cienfuegos blockade, carried flag of truce from *Manning* to enemy announcing the raising of the blockade.

8. CARR, CLARENCE A. (18), Lieutenant Commander United States Navy.

Services: Chief Engineer United States Navy; Inspector of Machinery, United States Torpedo Boat *Bulley* until July 7, 1898; Engineer of *Armeria* carrying ordnance supplies, July 7 to September 20, 1898; Inspector of Machinery Torpedo Boat destroyer *Stewart* and torpedo boats *Bulley* and *Wicks*; Inspector of Machinery of battleship *Kentucky*; Chief Engineer of the *Franklin*, Asiatic Squadron, to April 1, 1901.

335. CASE, MARSHALL L. (281), Captain United States Volunteers.

Services: Captain Company "H" 4th Regiment Pennsylvania Volunteer Infantry, April 28 to November 20, 1898; in camp at Mt. Gretna, Pa.; Fort Mifflin Park, Ga., and in General Mifflin's expedition to Porto Rico; in camp at Guayama.

205. S. Y. EDWARDS, R. (205), Ensign, United States Navy.

Served on the *Albatross* May 10 to May 28, 1868; on the *Albatross* October 10, 1868; *Starbuck* March 8 to March 7, 1869.

206. E. W. EKS, THOMAS CLARK (206), Surgeon, United States Volunteers.

Served as Surgeon and assistant surgeon, 1st New York Volunteer Infantry, July 1 to September 21, 1868; major surgeon, 12th New York Volunteers, October 7, 1868, to April 23, 1869, at Camp Townsend, Peekskill, N. Y.; May 2 to 17; Camp Thomas, N. Y.; July 9, 1868; Reserve Hospital, Lexington, Ky., September 21, 1868; with General Crook's expedition to Porto Rico, Lexington, Ky., October 1 to November 24, 1868; then to Cuba, January 1 to March 22, 1869. Surgeon, 28th United States Volunteers July 5, 1869, to March 22, 1901, in the campaign of Southern Texas and Northern Arizona; major surgeon, United States Volunteers, March 25, 1901; also acting chief surgeon 7th Separate Brigade. Commanding officer, Brigade Hospital, Zambranga, and Quarantine Officer, Port of Zambranga.

207. CHAPMAN, MELVILLE D. (207), Lieutenant, United States Marine Corps.

Served at Lieutenant Marine Barracks, Navy Yard, New York, August 10, 1868; Naval Academy, Annapolis, Md., September 10, 1868; *Albatross* October 10, 1868. Resigned December 10, 1868.

208. ELIASE, NORTON (208), Captain, United States Volunteers.

Served as Lieutenant, 203d New York Volunteer Infantry.

209. THOMAS, EDWARD C. (209), Captain, United States Revenue Cutter Service.

Served as Engineer in *Sticks*, protecting mines in the Chesapeake Bay and Jackson.

210. WILLIAM, JOHN BEKBERT, (210), Captain, United States Volunteers.

Served as Surgeon, 12th Regiment, New York Volunteers, July 15 to Aug. 15, 1868; Captain, July 15, 1868, at camp at Peekskill, N. Y.; then at Lexington, Ky., and Lexington, Ky.

211. GEORGE LINTON (287), Captain, United States Volunteers.

Served as Surgeon, and Adjutant, 1st New York Volunteer Infantry, October 27, 1868, to

212. ROBERT McEVAN (364), Lieutenant, United States Revenue Cutter Service.

Served as Engineer, United States Revenue Cutter *Albatross*, at fields in Boston, August 10, 1868.

120. CLAUS, HENRY (120). Lieutenant United States Volunteers.

Services: Lieutenant Troop "C." United States Volunteer Cavalry; participated in the Porto Rican campaign in 1898; battle of Coamo, August 9, 1898; skirmishes in Haniato Pass, August 9 and 10, 1898.

131. CLEMENT, CHARLES MAXWELL (131), Lieutenant Colonel United States Volunteers.

Services: Lieutenant Colonel 12th Regiment Pennsylvania Volunteer Infantry; in camp at Mt. Gretna, Pa.; Falls Church, Va.; Dunn Loring, Va., and Middletown, Pa., with 3d Brigade, 1st Division, 2d Army Corps, 1898.

87. CLOUS, JOHN W. (87). Brigadier General, United States Army, retired.

No record of services on file.

318. COLBY, ARTHUR HUTCHINS (263), P. A. Paymaster, late United States Navy.

Services: Pay officer of the *Badger*, Northern Patrol Squadron, June, 1898; Cuban Blockading Squadron, July, 1898; North Atlantic Fleet.

173. COLLIER, PRICE (172). Ensign, late United States Navy.

Services: Ensign *Prairie*, Signal Officer and Adjutant of Battalion; took part in engagement and sinking of *Alphonso XII* off Mariel; on blockade duty off Cuba in June, July and August, 1898.

810. COLLINS, DENNIS F. (539), Captain United States Volunteers.

Services: Organized and enrolled Company "E" of the 3d Regiment, New Jersey Volunteer Infantry, at Elizabeth, N. J., April 27, 1898; mustered in at Sea Girt, N. J., May 12, 1898; at Fort Hancock, N. J., May 26 to August 16; Pompton Lakes, N. J., August 16 to October 15, 1898.

177. CONNELL, WILLIAM MURRAY (177), First Lieutenant United States Army.

Services: First Lieutenant, 12th Regiment New York Volunteer Infantry, May 2, 1898. On detached service as Assistant Acting Quartermaster, Reserve Ambulance Corps, in Porto Rico, July 16 to November 3, 1898; Captain Company "K." 12th Regiment New York Volunteer Infantry, September 7, 1898, until mustered out April 20, 1899. First Lieutenant 26th United States Volunteer Infantry July 5, 1899; Captain September 13, 1899.

415. CONNER, ARTHUR BURDETTE (353), Lieutenant, late United States Navy.

Services: Lieutenant United States Navy, in command of the *Iris* from June 2 to October 4, 1898.

523

Name \_\_\_\_\_  
 Service \_\_\_\_\_  
 Navy Station \_\_\_\_\_  
 until Dec. \_\_\_\_\_  
 on leave \_\_\_\_\_

864. DALY, ROBERT T. (551). First Lieutenant United States Volunteers.

Services: First Lieutenant and Battalion Adjutant, 22d Regiment, New York Volunteer Infantry, May 24 to November 13, 1898.

388. DAVIDSON, JOHN ARCHIBALD (325). Captain United States Volunteers.

Services: Captain and Adjutant, 50th Regiment, New York Volunteer Infantry; in camp at Camp Black, N. Y.; Chickemange Park, Tampa and Fernandina, Fla.

647. DAVIS, CHARLES C. (197). Lieutenant United States Volunteers.

Services: First Lieutenant, Company "D," 22d Regiment New York Volunteer Infantry; served at Camp Black until June 10; Willets Point, N. Y., June 10 to September 23; Fort Slocum, N. Y., September 23 to November 27, 1898.

81. DAVIS, WILLIAM H. (371). Major United States Volunteers.

Services: Major 18th Regiment, Pennsylvania Volunteer Infantry, May 13 to October 22, 1898.

490. \*DAW, SELDEN ALLEN (300). Lieutenant Colonel United States Army; retired.

Services: Captain Battery "D," 5th Artillery; at Fort Hancock, Sandy Hook, New York Harbor; promoted Major May 24, 1898; commanded at Del Rio, Texas, June, 1898; took siege train from Tampa, Fla., to Guantánamo, Cuba, and Guánica, P. R., and hoisted first American flag over Custom House at Ponce; commanded heavy artillery battalion over the forts at San Juan, October 18, and hoisted American flag over El Morro Castle; Inspector of Artillery and Ordnance Depot at San Juan, P. R., until September, 1901.

62. DAW, WILLIAM P. (62). Commander United States Navy.

Services: Lieutenant Commander *New Orleans* from May 22 to November, 1898; took part in engagements and bombardments of forts off Santiago and on the blockade of San Juan, P. R.

871. DAYTON, EDWIN W. (561). Captain United States Volunteers.

Services: Captain Company "G," 22d Regiment, New York Volunteer Infantry, May 24 to November 23, 1898; Camp Black, N. Y.; subsequently detached from the regiment and ordered on special duty with the United States Engineers at Willets Point, N. Y.; mustered out with regiment.

371. DEMUTH, JESSE SMITH (308). First Lieutenant and assistant surgeon United States Volunteers.





532. DRISCOLL, DENIS J. (421). Lieutenant United States Volunteers.

Services: First Sergeant Company "H," 16th Regiment Pennsylvania Volunteer Infantry; in camp at Mount Gretna, Pa.; Chickamauga Park, Ga., and Charleston, S. C.

98. DUANE, ALEXANDER (98), Lieutenant, late United States Navy.

Services: Lieutenant in charge of 2d District, C. S. S., April 22 to August 15, 1898.

159. \*DUFFIELD, HENRY MARTIN (369), Brigadier General United States Volunteers.

Services: Brigadier General United States Volunteers, in command of Separate Brigade, 2d Army Corps, at Camp Alger, Va., May 27 to June 22, 1898; arrived at Siboney June 27; engaged in demonstration of Aguadores; in command of 33d Michigan, July 7, 1898.

160. DUGAN, DANIEL A. (160), Ensign, late United States Navy.

Services: Ensign, Acting Assistant Paymaster *Montana*, April 12 to 27, 1898; *Badger*, May 27 to October 7, 1898; in Cuban blockading squadron, July 4 to 26; assisted in capture of three vessels—*Humberto Rodriguez*, tug; *Sañ*, brig, and *San Fernando*, barge—off Nuevitás, Cuba.

4. DUNCAN, WILLIAM B. (4), Lieutenant, late United States Navy.

Services: Lieutenant, *Hawkes*, April 30 to September 6, 1898; participated in the bombardment of Santiago, Cuba, June 6; capture of Guantanamo, June 7; engagement with gunboat *Diego Velasquez*, June 13, at Cienfuegos, and gunboat at Casilda, June 15, and general dispatch and blockade duty on southern coast of Cuba until peace was declared.

355. DUNLAP, THADDEUS CON (292), Assistant Engineer, late United States Navy.

Services: Assistant Engineer *Indiana*, May 30 to July 2, 1898; *Oregon*, July 3 to September 13, 1898; *Massachusetts*, September 15 to December 13, 1898.

869. DUNN, GEORGE M. (559), Lieutenant Colonel United States Army.

Services: Major 1st United States Volunteer Cavalry, May 9 to September 15, 1898; Major and Judge Advocate of Volunteers, April 17, 1899; Major and Judge Advocate United States Army, April 2, 1901; in command squadron, Tampa, Fla., July and September, when regiment mustered out at Montauk Point, 1898; Judge Advocate, Department of Santiago, Cuba, May 20, 1899, to May 2, 1900, station Santiago; Judge Advocate, Department Western Cuba, July 1, 1900, station Queneadors, to December 1, 1900.



135. ELLICOTT, EUGENE (135). Captain United States Volunteers.

Services: Captain 1st Regiment, United States Volunteer Engineers. Recruiting duty June 7 to July 13, 1898; at Ponce, P. R., from August 15 to November 5, 1898.

70. EMERSON, ISAAC EDWARD (70). Lieutenant, late United States Navy.

Services: Commander 1st Naval Battalion Maryland National Guard; *Doris* from April 23 to May 3, 1898; Lieutenant United States Navy May 25, 1898; Commander *Dale* May 31; Assistant Chief of 5th Light House District July 12 to August 20; Assistant Chief United States Auxiliary Naval Force, and in command of 5th Light House District and *Dale* to November 2, 1898.

329. EVANS, CHARLES (274). Lieutenant, late United States Navy.

Services: Lieutenant *Form*, June 8 to 19, 1898; *Indiscoveris*, June 20 to 22; June 22, assigned to special duty as assistant to Captain of the Navy *Form*, Mare Island, until November 15, 1898.

372. EVANS, CHARLES R. (309). Major United States Volunteers.

Services: Captain 5th United States Volunteer Infantry (Immunes), from July 3, 1898, to January 7, 1899, when promoted Major, same regiment; in camp at Knoxville, Tenn.; Camp Thomas, Chickamauga, Ga., and at Arceibo, P. R., from November 3, 1898, to February, 1899.

25. FIELDER, FRANK SIDNEY (25). Assistant Surgeon, late United States Navy.

Services: Assistant Surgeon United States Naval Hospital, Washington, D. C., May 15 to June 6, 1898; *Cincinnati* from June 7 to September 17, 1898; member of Board of Medical Examiners for enlistment of crews of *Harvard* and *Yale*, at Newport News, Va., from June 10 to 25, 1898. Honorable discharge September 27, 1898.

746. FISH, WILLIAM L. (518). Captain United States Volunteers.

Services: Captain Company "C," 47th Regiment New York Volunteer Infantry; served at Camp Black, N. Y., and Fort Adams, R. I.

822. FISHBACK, GEORGE W. (543). Major and Paymaster United States Volunteers.

Services: Major and Paymaster United States Volunteers, May 27, 1898, to February 15, 1900; served in Paymaster General's office and at Santiago on General Shafter's staff; Montauk Point, L. I.; Chief Paymaster's Department, Porto Rico, and on duty at New York, Boston and San Francisco.

51. THOMAS BRADLEY ELLEN (412)

United States Navy.

Services: Commander of the *Albatross*; at the battle of Manila, 1898, and was reported to the Secretary of the Navy as "Lieutenant and Master of the ship, for 'brave and gallant service in battle.'" Was at the battle of Manila, 1898; was Navigator of the *Albatross* from January 1, 1898, and as such participated in all engagements against the Spanish fleet in Manila Bay, including the battle of Manila in February 1898, and the battle of June 25, 1898. As Captain of the *Albatross* participated in the capture of San Fernando, P. I., August 1, 1898.

52. HERBERT HENRY C. (323)

United States Army.

Services: Major and Additional Paymaster, United States Pay Department. Participated in the campaign in the trenches in front of Manila, August 5, 1898; battle of Manila, August 18, 1898; served in the Philippines from July 1, 1898, to July 1, 1899.

53. FREDERICK WILLIAM MAYHEW

United States Army.

Services: Commander Fort Olongos; participated in the bombardment of the Santiago forts on May 31, June 5 and 15, 1898. The *Albatross* landed the batteries on both sides of the entrance to Santiago Harbor alone on June 15, 1898, to relieve the *Yosemite* at the mouth of San Juan, P. I.; captured the Spanish gunboat *Alfonso Rodriguez*; sank the Spanish steamer *Alfonso Lopez*; and assisted in the capture of the *Yosemite*. The *Albatross* was decorated with honorary insignia for the battle of Manila, June 18, 1898. — *Albatross*, June 15, 1898.

54. WILLIAM HENRY HALL (423), P.

United States Navy.

Services: Surgeon in the *Albatross*; participated in the battle of Manila, 1898.

55. WILLIAM HENRY GRIFFIN (370)

United States Navy.

Services: Lieutenant in command of the *Albatross*; served in command of the *Albatross* and as Executive Officer of the *Albatross* in 1898.

56. WILLIAM HENRY PIERPONT

United States Navy.

Services: Lieutenant, United States Navy, *Albatross*; participated in the battle of Manila, 1898; was in command of the *Albatross* from June 17, 1898, to June 22, 1898; was in command of the *Albatross* on the day of the battle of Manila, June 25, 1898; on duty New York, June 25, 1898.

324. FOWLER, EDWARD S. (269), Major United States Volunteers.

Services: Major and Additional Paymaster United States Volunteers from May 28, 1898, to January 31, 1899.

726. FRANKLIN, WILLIAM BUEL (509), Lieutenant, late United States Navy.

Services: Lieutenant on the *Buffalo*, May 26 to September 20, 1898.

85. FRICK, EUCLID B. (83), Major United States Army.

Services: Captain and Assistant Surgeon United States Army: Camp Geo. H. Thomas, April 27, 1898; Fort Tampa, Fla., May 1, 1898, at Camp Rogers, Udon City, Fla., established field hospital for siege artillery train, Fort Trumbull, Conn., August 24, 1898. Charge of hospital at Fort Wadsworth, September 3, 1898, to November 20, 1900. Charge of hospital, San Juan, Porto Rico, November 11, 1900, to April, 1903.

520. FRIES, CLAUDE SHARPE (403), Lieutenant, United States Army.

Services: Captain 4th Regiment, New Jersey Volunteer Infantry, June 30, 1898, to April 6, 1899; Captain 28th Infantry, United States Volunteers, July 5, 1899, to May, 1901.

45. FRY, ALFRED BROOKS (15), Chief Engineer, late United States Navy.

Services: Chief Engineer *Nahant*, April 1, 1898; Chief Engineer *Stranger* in Cuban waters from June 22 to September 2, 1898.

807. PURBUSH, CHARLES LINCOLN (536), Major and Surgeon United States Volunteers.

Services: Acting Assistant Surgeon United States Army Hospital ship *Missouri*, July 27, 1898; in Chief Surgeon's office, Headquarters Department of Havana, Cuba, May 4, 1899; Director of Department of Charities and Hospital, Havana, Cuba, May 11; Captain and Assistant Surgeon United States Volunteers, August 21, 1899; Major and Surgeon, March 16, 1901. Foreign service: Ponce and Arroya, P. R.; Santiago and Havana, Cuba; islands of Panay, Cebu, Negros and Bohol, P. I.

702. GALE, EDWARD COURTLAND (502), Captain United States Volunteers.

Services: Captain Company "A," 2d Regiment, New York Volunteer Infantry. Camp duty: At Hempstead, Chickamauga, Tampa and Fernandina.

73. GALT, WILLIAM WILSON (73), Paymaster United States Navy.

Services: Paymaster *Raleigh*, November 20, 1896, to May 25, 1898; *Delmonico* (afterward *Glacier*), supply ship for Watson's squadron, from July 11, 1898, to March 11, 1899; Paymaster Navy Yard, Norfolk, Va., from July 1, 1899, to April 1, 1901. Engagements: Battle of



183. GRIFFIN, EUGENE (183), Brigadier General United States Volunteers.

Services: Colonel United States Volunteer Corps of Engineers, May 19, 1898; in Puerto Rico, November 18, 1898, to January 20, 1899; Brigadier General United States Volunteers, January 23.

727. GRIFFITH, STUART WEBSTER (510), Ensign, late United States Navy.

Services: Ensign *Nehant*, May 12 to September 8, 1898.

496. GROSS, EUGENE J. (34), Assistant Surgeon United States Navy.

Services: Assistant Surgeon United States Navy, June 8, 1898; served at the Boston Navy Yard, U. S. R. S. *Wicks*, Boston Naval Hospital, *Arcturion* for limited periods until ordered to the *Massachusetts* on January 10, 1899; transferred to the *New Orleans* on July 29, 1899.

161. HAINES, OSCAR G. (374), Lieutenant United States Revenue Cutter Service.

Services: Third Lieutenant United States Revenue Cutter *Hamilton*, on blockade duty on north Cuban coast.

127. HALBERSTADT, BAIRD (127), First Lieutenant and Regimental Quartermaster United States Volunteers.

Services: First Lieutenant, 4th Regiment, Pennsylvania Volunteer Infantry, Camp D. H. Hastings, April 23 to May 15; Camp Geo. H. Thomas, May 18 to July 22; sailed with regiment for Guánica, P. R., July 28; took part in invasion of Puerto Rico, August 2 to September 1, 1898; mustered out with regiment, November 16, 1898.

727. HALPIN, ARTHUR FREDERIC (511), Lieutenant United States Army.

Services: Second Lieutenant, 7th Regiment, California Volunteer Infantry, May 9 to December 2, 1898; Captain 35th United States Volunteer Infantry, July 5, 1899, to May 2, 1901; served in the Philippines (Bulacan Province), taking part in all operations of the regiment in the province. Appointed Second Lieutenant United States Infantry, August, 1901.

63. HARDIN, EDWARD E. (63), Major United States Army.

Services: Captain 7th United States Infantry at the outbreak of war; Colonel 2d New York Volunteer Infantry, May 17 to October 25, 1898.

710. HARMAN, JOHN ALEXANDER (505), Major United States Volunteers.

Services: First Lieutenant of Cavalry, United States Army, April 28, 1898; Quartermaster 1st Cavalry Brigade, Tampa, Fla., May 16; Aide de Camp on staff of Brigadier General S. S. Sumner; served throughout Santiago

campaign; participated in the capture of San Juan Hill; siege and capture of Santiago de Cuba; was present at the surrender of Santiago on July 17; appointed Major and Chief Ordnance Officer United States Volunteers on September 2, 1898; May 5, 1899, to March 1, 1900, First Lieutenant United States Cavalry.

78. HARRIES, GEORGE HERBERT  
(78). Brigadier General United States Volunteers.

Services: Brigadier General, District of Columbia Militia, authorized by the President to organize one regiment for the District of Columbia. In Cuba, Major General, 1st, 2d, 3d, 4th and 5th Regiments. Relieved the 7th and 21st Infantry in the trenches at Santiago; guarded Spanish prisoners from July 19 to August 22, 1898. Recommended by Major General Henry H. Benson, his Division Commander, for special promotion on account of service rendered at Santiago, July 12 and 13, 1898.

162. HARRIS, HENRY DILLON. Lieutenant Commander, late United States Navy.

Services: Commanded the *Scholar* from May 16 to 22, 1898; commanded the naval force that assisted in the attempt to sink the *Albatross*, *Maria Teresa Nord*, and the command of the ship after the wreck master declared on abandonment. Superintendent of the Army Transport Service from December 28, 1898, to November 15, 1900.

808. HARRISON, FRANCIS BURTON  
5377. Captain and Assistant Adjutant General United States Volunteers.

Services: Assistant Adjutant General United States Volunteers, 2d Brigade, 1st Division, 3d Army Corps, at Camp Thomas, Chickamauga, Ga. Assistant Adjutant General, 1st Brigade, 2d Division, 4th Army Corps, at Camp Shiloh, Amistown, Pa.

176. HARRISON, JIMMIE S. (1850-1900). Lieutenant United States Army.

Services: First Lieutenant, 20th Regiment, New York Infantry, at Santiago, July 1, 1898; killed July 28, 1898, at the Battle of San Juan. Member of the 1st, 2d, 3d, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th, 13th, 14th, 15th, 16th, 17th, 18th, 19th, 20th, 21st, 22nd, 23rd, 24th, 25th, 26th, 27th, 28th, 29th, 30th, 31st, 32nd, 33rd, 34th, 35th, 36th, 37th, 38th, 39th, 40th, 41st, 42nd, 43rd, 44th, 45th, 46th, 47th, 48th, 49th, 50th, 51st, 52nd, 53rd, 54th, 55th, 56th, 57th, 58th, 59th, 60th, 61st, 62nd, 63rd, 64th, 65th, 66th, 67th, 68th, 69th, 70th, 71st, 72nd, 73rd, 74th, 75th, 76th, 77th, 78th, 79th, 80th, 81st, 82nd, 83rd, 84th, 85th, 86th, 87th, 88th, 89th, 90th, 91st, 92nd, 93rd, 94th, 95th, 96th, 97th, 98th, 99th, 100th, 101st, 102nd, 103rd, 104th, 105th, 106th, 107th, 108th, 109th, 110th, 111th, 112th, 113th, 114th, 115th, 116th, 117th, 118th, 119th, 120th, 121st, 122nd, 123rd, 124th, 125th, 126th, 127th, 128th, 129th, 130th, 131st, 132nd, 133rd, 134th, 135th, 136th, 137th, 138th, 139th, 140th, 141st, 142nd, 143rd, 144th, 145th, 146th, 147th, 148th, 149th, 150th, 151st, 152nd, 153rd, 154th, 155th, 156th, 157th, 158th, 159th, 160th, 161st, 162nd, 163rd, 164th, 165th, 166th, 167th, 168th, 169th, 170th, 171st, 172nd, 173rd, 174th, 175th, 176th, 177th, 178th, 179th, 180th, 181st, 182nd, 183rd, 184th, 185th, 186th, 187th, 188th, 189th, 190th, 191st, 192nd, 193rd, 194th, 195th, 196th, 197th, 198th, 199th, 200th, 201st, 202nd, 203rd, 204th, 205th, 206th, 207th, 208th, 209th, 210th, 211th, 212th, 213th, 214th, 215th, 216th, 217th, 218th, 219th, 220th, 221st, 222nd, 223rd, 224th, 225th, 226th, 227th, 228th, 229th, 230th, 231st, 232nd, 233rd, 234th, 235th, 236th, 237th, 238th, 239th, 240th, 241st, 242nd, 243rd, 244th, 245th, 246th, 247th, 248th, 249th, 250th, 251st, 252nd, 253rd, 254th, 255th, 256th, 257th, 258th, 259th, 260th, 261st, 262nd, 263rd, 264th, 265th, 266th, 267th, 268th, 269th, 270th, 271st, 272nd, 273rd, 274th, 275th, 276th, 277th, 278th, 279th, 280th, 281st, 282nd, 283rd, 284th, 285th, 286th, 287th, 288th, 289th, 290th, 291st, 292nd, 293rd, 294th, 295th, 296th, 297th, 298th, 299th, 300th, 301st, 302nd, 303rd, 304th, 305th, 306th, 307th, 308th, 309th, 310th, 311th, 312th, 313th, 314th, 315th, 316th, 317th, 318th, 319th, 320th, 321st, 322nd, 323rd, 324th, 325th, 326th, 327th, 328th, 329th, 330th, 331st, 332nd, 333rd, 334th, 335th, 336th, 337th, 338th, 339th, 340th, 341st, 342nd, 343rd, 344th, 345th, 346th, 347th, 348th, 349th, 350th, 351st, 352nd, 353rd, 354th, 355th, 356th, 357th, 358th, 359th, 360th, 361st, 362nd, 363rd, 364th, 365th, 366th, 367th, 368th, 369th, 370th, 371st, 372nd, 373rd, 374th, 375th, 376th, 377th, 378th, 379th, 380th, 381st, 382nd, 383rd, 384th, 385th, 386th, 387th, 388th, 389th, 390th, 391st, 392nd, 393rd, 394th, 395th, 396th, 397th, 398th, 399th, 400th, 401st, 402nd, 403rd, 404th, 405th, 406th, 407th, 408th, 409th, 410th, 411th, 412th, 413th, 414th, 415th, 416th, 417th, 418th, 419th, 420th, 421st, 422nd, 423rd, 424th, 425th, 426th, 427th, 428th, 429th, 430th, 431st, 432nd, 433rd, 434th, 435th, 436th, 437th, 438th, 439th, 440th, 441st, 442nd, 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586th, 587th, 588th, 589th, 590th, 591st, 592nd, 593rd, 594th, 595th, 596th, 597th, 598th, 599th, 600th, 601st, 602nd, 603rd, 604th, 605th, 606th, 607th, 608th, 609th, 610th, 611th, 612th, 613th, 614th, 615th, 616th, 617th, 618th, 619th, 620th, 621st, 622nd, 623rd, 624th, 625th, 626th, 627th, 628th, 629th, 630th, 631st, 632nd, 633rd, 634th, 635th, 636th, 637th, 638th, 639th, 640th, 641st, 642nd, 643rd, 644th, 645th, 646th, 647th, 648th, 649th, 650th, 651st, 652nd, 653rd, 654th, 655th, 656th, 657th, 658th, 659th, 660th, 661st, 662nd, 663rd, 664th, 665th, 666th, 667th, 668th, 669th, 670th, 671st, 672nd, 673rd, 674th, 675th, 676th, 677th, 678th, 679th, 680th, 681st, 682nd, 683rd, 684th, 685th, 686th, 687th, 688th, 689th, 690th, 691st, 692nd, 693rd, 694th, 695th, 696th, 697th, 698th, 699th, 700th, 701st, 702nd, 703rd, 704th, 705th, 706th, 707th, 708th, 709th, 710th, 711th, 712th, 713th, 714th, 715th, 716th, 717th, 718th, 719th, 720th, 721st, 722nd, 723rd, 724th, 725th, 726th, 727th, 728th, 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872nd, 873rd, 874th, 875th, 876th, 877th, 878th, 879th, 880th, 881st, 882nd, 883rd, 884th, 885th, 886th, 887th, 888th, 889th, 890th, 891st, 892nd, 893rd, 894th, 895th, 896th, 897th, 898th, 899th, 900th, 901st, 902nd, 903rd, 904th, 905th, 906th, 907th, 908th, 909th, 910th, 911th, 912th, 913th, 914th, 915th, 916th, 917th, 918th, 919th, 920th, 921st, 922nd, 923rd, 924th, 925th, 926th, 927th, 928th, 929th, 930th, 931st, 932nd, 933rd, 934th, 935th, 936th, 937th, 938th, 939th, 940th, 941st, 942nd, 943rd, 944th, 945th, 946th, 947th, 948th, 949th, 950th, 951st, 952nd, 953rd, 954th, 955th, 956th, 957th, 958th, 959th, 960th, 961st, 962nd, 963rd, 964th, 965th, 966th, 967th, 968th, 969th, 970th, 971st, 972nd, 973rd, 974th, 975th, 976th, 977th, 978th, 979th, 980th, 981st, 982nd, 983rd, 984th, 985th, 986th, 987th, 988th, 989th, 990th, 991st, 992nd, 993rd, 994th, 995th, 996th, 997th, 998th, 999th, 1000th.



408. HARTIGAN, JOSEPH J. (346), Lieutenant United States Volunteers.

Services: Private 201st Regiment, New York Volunteer Infantry, July 7, 1898; Corporal, July 25; Sergeant, August 11, 1898; at Camp Black, N. Y.; First Sergeant, November 1, 1898; at Camp Meade, Pa.; Second Lieutenant, November 25, Camp Wetherill, S. C.; mustered out, April 3, 1899.

9. HASBROUCK, ALFRED (30), Lieutenant United States Army.

Services: Lieutenant 201st Regiment, New York Volunteer Infantry; at Camp Black from July 10 to September 9, 1898; Camp Meade, Pa., September 10 to November 15, 1898; Camp Wetherill, S. C., November 17, 1898, to April 3, 1899. First Lieutenant 26th Infantry, United States Volunteers, from July 5, 1899, to May 13, 1901; served with the regiment in the Philippines.

867. HAUBOLD, RUDOLPH D. (557), Captain United States Volunteers.

Services: Captain 22d Regiment, New York Volunteer Infantry, May 24 to October 21, 1898; camp duty at Camp Black, N. Y., and garrison duty at Fort Slocum, N. Y.

727. HAUGHWOUT, CHARLES SAMUEL (508), First Lieutenant United States Volunteers.

Services: First Lieutenant and Commissary 1st Regiment, Colorado Volunteer Infantry, May 1, 1898; participated with regiment in building and occupying the trenches before Manila and the subsequent fighting, and the capture of Manila on August 13, 1898. Assistant to the Collector of Internal Revenue from August 31, 1898, to May 12, 1899; participated in engagements at Los Pinos and Paranaque, June 9 and 10. Wounded. Mustered out September 9, 1899.

410. HAY, THEODORE J. (328), Captain United States Volunteers.

Services: Captain Battery "B," 1st California Heavy Artillery, from May 9 to September 30, 1898.

369. HENDERSON, YANDELL (306), Ensign, late United States Navy.

Services: Ensign *Yale* as Captain's Aide from June 13 to August 8, 1898.

123. HENDRIE, STRATHCARN (123), Ensign, late United States Navy.

Services: Ensign *Yosemite*, May 9 to August 20, 1898; participated in the bombardment of San Juan, P. R., June 28, 1898.

100. HESS, FRANK JUDSON (100), Lieutenant United States Volunteers.

Services: Lieutenant 202d Regiment, New York Volunteer Infantry; service at Camp Black, N. Y.

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133. MALLIG, EDWARD SMITH (400). Lieutenant United States Volunteers.

Services: Second Lieutenant Company "M," 4th Regiment, Pennsylvania Volunteer Infantry; in camp at Mt. Gretna, Pa.; Chickamauga, Ga., and in Porto Rico during latter part of 1898.

137. IRVING, WASHINGTON (242). Lieutenant, late United States Navy.

Services: Lieutenant *Budger*, Northern Patrol, June 1898; on blockade duty, various Cuban ports, July, 1898; Dry Tortugas, with prizes and Spanish soldiers, July, 1898; fleet of Admiral Sampson, August, 1898; various duties, home station, September and October, 1898.

122. JACKSON, FRANCIS D. (225). Major United States Volunteers.

Services: 1st and 2d Regiment, New Jersey Volunteer Infantry, May 2 to September 24, 1898; in camp at Jacksonville, Fla., and Pablo, Cuba, Fla.

134. JARRETT, ARTHUR R. (311). Captain and Assistant Surgeon United States Volunteers.

Services: Doctor and Assistant Surgeon 22d Regiment United States Volunteer Infantry; in camp at San Juan, Fort Blount and Camp Clark, P. R.

90. JENKINS, STEPHEN (99). Lieutenant, late United States Navy.

Services: Lieutenant, Executive Officer *Albatross*, May 22, 1898, to December 24, 1898; participated in the engagement at Guantanamo.

58. JOHNSON, CAVE (465). Lieutenant United States Volunteers.

Services: First Lieutenant, 1st Regiment, Tennessee Volunteer Infantry, May 15, 1898, to June 1, 1898. Participated in the following engagements: Battle of Tondo, second scouting expedition under Major Bell, across Pasig River from San Pedro de Macaris; advances against Pasig under General Wheaton, and several skirmishes with 1st California, 1st Colorado and 10th Pennsylvania regiments.

56. JOHNSON, FREDERICK CURTISS (453). Lieutenant United States Army.

Services: Lance Corporal 7th United States Cavalry, August 20, 1898; Corporal, September 12, 1898; Sergeant, January 3, 1899; Second Lieutenant of Cavalry, April 10, 1899.

136. JOHNSON, LORENZO BASCOM TABER (301). Captain and Assistant Surgeon United States Volunteers.

Services: Naval Cadet, United States Navy, *Winnebago*, June 15 to September 17, 1898; First Lieutenant and Assistant Surgeon United States Volunteers, Captain and Assistant Surgeon United States Volunteers, May 5, 1900, to March 16, 1901.

State of  
New York  
County of  
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1900

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Office of the Secretary of the Navy  
Washington, D.C.

RECEIVED  
JAN 21 1898  
DEPT. OF THE NAVY

TO THE SECRETARY OF THE NAVY  
FROM THE SECRETARY OF THE ARMY  
JAN 21 1898

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D. C.: Camp Thomas, Chickamauga Park; Camp Greely, Newport News, Va.; and Santiago, Cuba. Chief Signal Officer, Department of Santiago.

547. LEVIST, FRANCIS ADELBERT (1860). Lieutenant United States Revenue Cutter Service.

Services: Navigator of the United States Revenue Cutter *Albatross* from the beginning of the war until August 11, 1898, then was Executive Officer same vessel, until cessation of hostilities.

548. LILLIEND, JOHN E. R. (1860). Captain United States Engineers.

Services: Captain Engineer 12th and 13th Regiments, New York Volunteers Infantry. May 9 to November 23, 1898; garrison duty at Fort Slocum, N. Y.

555. LITTLEFIELD, CHARLES EDWIN (1859). Lieutenant, late United States Navy.

Services: Executive Officer *Sigsbee* was assigned to blockade duty, commenced upon expedition that put out the Norwegian steamer *Franklin* on the successful completion of this duty was detailed as Prize Master to take that ship to New York; October 1, 1898, to March 12, 1899. Navigator United States Ship *Albatross*.

556. LONG, CHARLES FREDERICK (1891). Ensign, late United States Navy.

Services: Ensign on the *Albatross*, north coast of Cuba. Blockading squadron.

560. LONGSTREET, JAMES W. (1894). First Lieutenant United States Army. Cavalry.

Services: Second Lieutenant, Georgia Volunteer Light Artillery. May 13 to October 17, 1898; First Lieutenant 10th Infantry, United States Volunteers. November 28, 1898, to May 25, 1899. First Lieutenant, 19th Infantry, United States Volunteers. July 5, 1899; Captain, September 3, 1900; First Lieutenant "B" Cavalry, United States Army. August, 1901. Served at Camp Northern, Ga.; Chickamauga Park; Cuba. Department of Santiago, December, 1898, to March, 1899; Philippines, Islands, November, 1899, to March, 1901. Engagements: San Mateo, Luzon. Montalban, Luzon; Santa Cruz, Lagonoy; Odiongán, Tablas Island; Durabir Bridge, Samar.

561. LORING, CHARLES H. (1891). Chief Engineer United States Navy.

Services: Inspector of Machinery of Vessels of the United States Navy from April 27, 1898, to January 31, 1899.

571. LOTHROP, ANSEL JAMES, JR. (1881). Lieutenant, late United States Navy.

Services: Lieutenant *Niagara*, June 7 to September 3, 1898; at Guamán and Porto Rico; *Franklin* from October 14 to November 16, 1898; Norfolk Navy Yard.





1. James Earl Ray Charles High  
2. John Stacy Reveling Cutter

24. *Sceloporus*. From the village of San Juan, from  
San Juan, Pinar del Rio, in May to the Man-  
zanillo, and the village of San Juan, United  
States, and the village of San Juan, and  
the village of San Juan, and the village of San Juan,  
a few miles  
to the village of San Juan, and the village of San Juan, Fla-  
orida, and the village of San Juan, and the village of San Juan,  
and the village of San Juan, and the village of San Juan, June  
15, 1880, and the village of San Juan, and the village of San Juan, 15.

47. ARTHUR L. E. TINKER 47. Captain  
United States Engineers.

Received by the Editor: 12 September 1992  
 Accepted by the Editor: 12 September 1992

JOHN WILLIAM DOWLING, JUNIOR (1961)  
 1960-61, United States Engineers.

1861-62, Second Infantry, 9th Regiment.  
 1862-63, 1st Cavalry, 1st Regt. Camp  
 Thomas, 1st Cavalry, 1st Regt. Camp Thomas.  
 1863-64, 1st Cavalry, 1st Regt. Camp Thomas.  
 1864-65, 1st Cavalry, 1st Regt. Camp Thomas.  
 1865-66, 1st Cavalry, 1st Regt. Camp Thomas.  
 1866-67, 1st Cavalry, 1st Regt. Camp Thomas.  
 1867-68, 1st Cavalry, 1st Regt. Camp Thomas.

[illegible]

the  $\mathcal{H}_2$  norm of the error signal  $\|e\|_2$  is bounded by the  $\mathcal{H}_2$  norm of the disturbance  $\|d\|_2$  multiplied by the  $\mathcal{H}_2$  norm of the transfer function  $\|G\|_2$  from  $d$  to  $e$ . The  $\mathcal{H}_2$  norm of the transfer function  $G$  is the square root of the trace of the product of the controllability and observability Gramians of the system  $(A, B, C)$  [1].

Staff Sergeant, 1st Cavalry Division, and Assistant  
Sergeant, 1st Cavalry Division, 1st Cavalry Infantry.

U.S. DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
WASHINGTON, D.C. 20250

*B. b.* was taken near New Bedford, May 28, 1907; also at Provincetown, Aug. 18, 1898; *Brutus* was taken at Provincetown, at a distance of 10 miles from shore, on July 16, 1907, on August 1, 1907, and August 2, 1907.

WILLIAM M. FAY-  
Surgeon, United States Revenue

Large anchorage on blockade  
runs Havana and Bahia Honda.

Was with the conveying fleet of Shafter's expedition against Santiago; captured *Adula*; was present at the battle of Manzanilla and Legritos, and served ashore at Daiquiri (Shafter's base of supplies) for two weeks, in charge of temporary hospital containing as many as 70 teamsters and wagoners at the time, some of whom had yellow fever. This base was left without a surgeon, or even Hospital Corps men; and when sickness broke out, volunteered and was sent ashore for the above duty.

562. MITCHELL, RALPH MOLYNEUX (451), Lieutenant United States Army.

Services: Private Company "K," 4th Regiment, New Jersey Volunteer Infantry, July 14, 1898; Sergeant, July 15; Second Lieutenant, November 18, 1898.

54. MOLINARE, W. ROBINSON (541), First Lieutenant United States Volunteers.

Services: First Lieutenant 1st United States Volunteer Engineers, June 27, 1898, to January 25, 1899. Served during the Spanish-American War in Porto Rico in 1898. First Lieutenant 42d United States Volunteer Infantry, August 17, 1899; Adjutant 2d Battalion, September 3; Aide de Camp C. O. 5th Division, Department Northern Luzon, June 1, 1900, to April 29, 1901; served in Luzon, P. I., December, 1899, to June, 1901. Engagements: Laguna Province, P. I., January; Pargil, February 7; near Lumbong, February 13; Paguil, March 8; Paete, March 27 and 29; Gual, Cailles, Caram, east of Lumbong, April 1; Pinauran, November 22, 1900.

455. MORRIS, MONSON (365), Lieutenant United States Volunteers.

Services: Second Lieutenant 12th Regiment, New York Volunteer Infantry, May 13, 1898; Com., June 1 to July 20, 1898; First Lieutenant, September 7, 1898; in command of Company "E," January 16 until April 20, 1898.

866. MOSES, CHARLES G. (555), Lieutenant United States Volunteers.

Services: Second Lieutenant 22d Regiment, New York Volunteer Infantry, May 24 to October 28, 1898; in camp at Camp Black, N. Y., and in garrison at Fort Slocum, N. Y.

551. MOTT, T. BENTLEY (410), Captain United States Army.

Services: Aide de Camp on staff of Major General Merritt, 1896 to 1900; at capture of Manila.

88. MUHLENBERG, JOHN CAMERON (88), Major and Paymaster United States Army.

Services: Post Paymaster, Washington, D. C.; Chief Paymaster, Porto Rico, 1898; Chief Paymaster, Department of the Gulf.



#### 44. NEWBERRY, JEREMIAH

Lieutenant, late United States Navy.

Services: Lieutenant *Franklin*, April 17 to May 7, 1898; *Decatur*, May 7 to July 1, 1898. Engagements: *Manzanillo*, October 12, 1898; *Concho* and *Puerto de Luna*, on arrival of Spanish transport *Antonio Lopez* on June 28; blockade of Santiago, August 22, 1898, to January 2, 1899.

#### 189. NICHOLS, ROWLAND STEWART

(189). Chaplain United States Volunteers.

Services: Chaplain 6th Regiment, New York Volunteer Infantry; in camp at Peekskill, N. Y., and Camp Thomas, Chickamauga Park, Ga.; Chaplain United States Army, 23d United States Infantry, Iolo, P. I.

#### 193. NIVEN, CHRISTIAN MACNESS

1st Lt. 105th First Lieut. United States Volunteers.

Services: Lieutenant Company "K," 105th New York Volunteer Infantry.

#### 381. NORTON, ALBERT LELAND

318). Lieutenant United States Navy.

Services: Ensign *Albatross*, March 10, 1898; served on the same ship on the Havana blockade until the cessation of hostilities; Lieutenant (J. G.), May 1, 1898, to September 12, 1898, and proceeded to Manila, P. I., in active service during the Philippine insurrection.

#### 402. OSKENDAL, ARTHUR LINDE

(340). F. A. Engineer United States Navy.

Services: F. A. Engineer United States Navy, League Island Navy Yard, on shore duty and the *Albatross*, July 25 to August 21, 1898; *Iowa* until September 12; *Albatross* until December 12, 1898.

#### 403. PALMER, ARMIN BUTLER

First Lieutenant United States Volunteers.

Services: First Lieutenant Light Battery "B," Georgia Artillery, United States Volunteers; in camp at Chickamauga Park, May 15 to September 8, 1898.

#### 760. PARKE, JOHN S. (522). Major

United States Army.

Services: Com. 2d Brigade, 1st Division, 8th Army Corps, 1898; Acting Adjutant General, same brigade, Manassas Park, N. Y., until October, 1898; at Plattsburg Barracks, N. Y., until April, 1899; in the Philippines to May, 1902; in action at Calamba, Luzon, August, October, November and December, 1899; in campaign against insurgents in Batangas, Luzon, December, 1901, and April, 1902.

#### 82. PARKS, CHARLES HENRY (82).

Chaplain United States Navy.

Services: Chaplain *San Francisco*; blockade of the north coast of Cuba.

21. **REYNOLDS, JOHN** 1857. Ensign, U. S. Navy.

Served on the *Talladega* from August 1878 to August 1880. Stationed at Talladega, covered the coast of the Gulf of Mexico under Captain J. M. Smith. Stationed at the 31. As- sisted in the capture of the steamer *Las Tunas*, Cuba, in the month of July, and the *Trinidad* (blockading steamer) detained at a land- ing at the mouth of the Amazon. With General George B. Meade, and others, in the block- ading steamer *Talladega* about the month of 1878.

22. **REYNOLDS, JOHN** 1857. Ensign, U. S. Navy.

Served on the *Talladega* from August 1878 to August 1880. Stationed at Talladega, covered the coast of the Gulf of Mexico under Captain J. M. Smith. Stationed at the 31. As- sisted in the capture of the steamer *Las Tunas*, Cuba, in the month of July, and the *Trinidad* (blockading steamer) detained at a land- ing at the mouth of the Amazon. With General George B. Meade, and others, in the block- ading steamer *Talladega* about the month of 1878.

23. **REYNOLDS, JOHN** 1857. Ensign, U. S. Navy.

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24. **REYNOLDS, JOHN** 1857. Ensign, U. S. Navy.

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25. **REYNOLDS, JOHN** 1857. Ensign, U. S. Navy.

Served on the *Talladega* from August 1878 to August 1880. Stationed at Talladega, covered the coast of the Gulf of Mexico under Captain J. M. Smith. Stationed at the 31. As- sisted in the capture of the steamer *Las Tunas*, Cuba, in the month of July, and the *Trinidad* (blockading steamer) detained at a land- ing at the mouth of the Amazon. With General George B. Meade, and others, in the block- ading steamer *Talladega* about the month of 1878.

26. **REYNOLDS, JOHN** 1857. Ensign, U. S. Navy.

Served on the *Talladega* from August 1878 to August 1880. Stationed at Talladega, covered the coast of the Gulf of Mexico under Captain J. M. Smith. Stationed at the 31. As- sisted in the capture of the steamer *Las Tunas*, Cuba, in the month of July, and the *Trinidad* (blockading steamer) detained at a land- ing at the mouth of the Amazon. With General George B. Meade, and others, in the block- ading steamer *Talladega* about the month of 1878.

27. **REYNOLDS, JOHN** 1857. Ensign, U. S. Navy.

Served on the *Talladega* from August 1878 to August 1880. Stationed at Talladega, covered the coast of the Gulf of Mexico under Captain J. M. Smith. Stationed at the 31. As- sisted in the capture of the steamer *Las Tunas*, Cuba, in the month of July, and the *Trinidad* (blockading steamer) detained at a land- ing at the mouth of the Amazon. With General George B. Meade, and others, in the block- ading steamer *Talladega* about the month of 1878.



332. PILLOT, PETER STUBBS (277). First Lieutenant United States Volunteers.

Services: First Lieutenant 12th Regiment New York Volunteer Infantry. May 12-13, 1898; 18, 1898: camp duty at Peekskill, N. Y.; Chickamauga, Ga.

759. POE, S. J. JOHNSON (521). Lieutenant United States Volunteers.

Services: First Lieutenant and Regimental Adjutant 3d Regiment, Maryland Volunteer Infantry: in camp at Pithole, Pa.; Chickamauga, Ga.; Tampa and Tampa Heights.

806. POMEROY, FREDERIC H. (535). Captain United States Army.

Services: Captain and Commissary of Subs United States Volunteers. June 8, 1898, to June 8, 1901. Cuba, Porto Rico and Philippine Islands.

192. POLETT, ARTHUR (192). Lieutenant United States Army.

Services: Second Lieutenant, 201st Regiment, New York Volunteer Infantry. July 22, 1898: Acting Com. of Sub, 201st Regiment, New York Volunteers. Camp G. G. Meade. October 25: First Lieutenant. November 13: Camp Black, N. Y. July 22 to September 1898: Camp G. G. Meade, Pa. September 10 to November 1898: Camp Meade, S. C. November 17, 1898: honorably mustered out April 3, 1899. First Lieutenant, 421 United States Volunteer Infantry. August 17, 1899: served through the Philippine Insurrection. Recommended in engagement of Pinaran, P. I., November 22, 1900. Mustered out as First Lieutenant 421 United States Volunteers. June 30, 1901: Second Lieutenant, 14th United States Cavalry.

342. PORTER, WILLIAM BARDMAN (431). Lieutenant, late United States Navy.

Services: Lieutenant on the *Yale*. May 2: May 8, prize master on the *Riday*. June 15, resumed duty on *Yale*. July 8, temporarily assigned to command of Army Transport *Riday*. August 28 resumed former duty on *Yale*.

15. POTTER, DAVID (113). Paymaster United States Navy.

Services: Assistant Paymaster United States Ram *Katahdin*. March 15, 1898: patrol duty *Buffalo*. September 30, 1898.

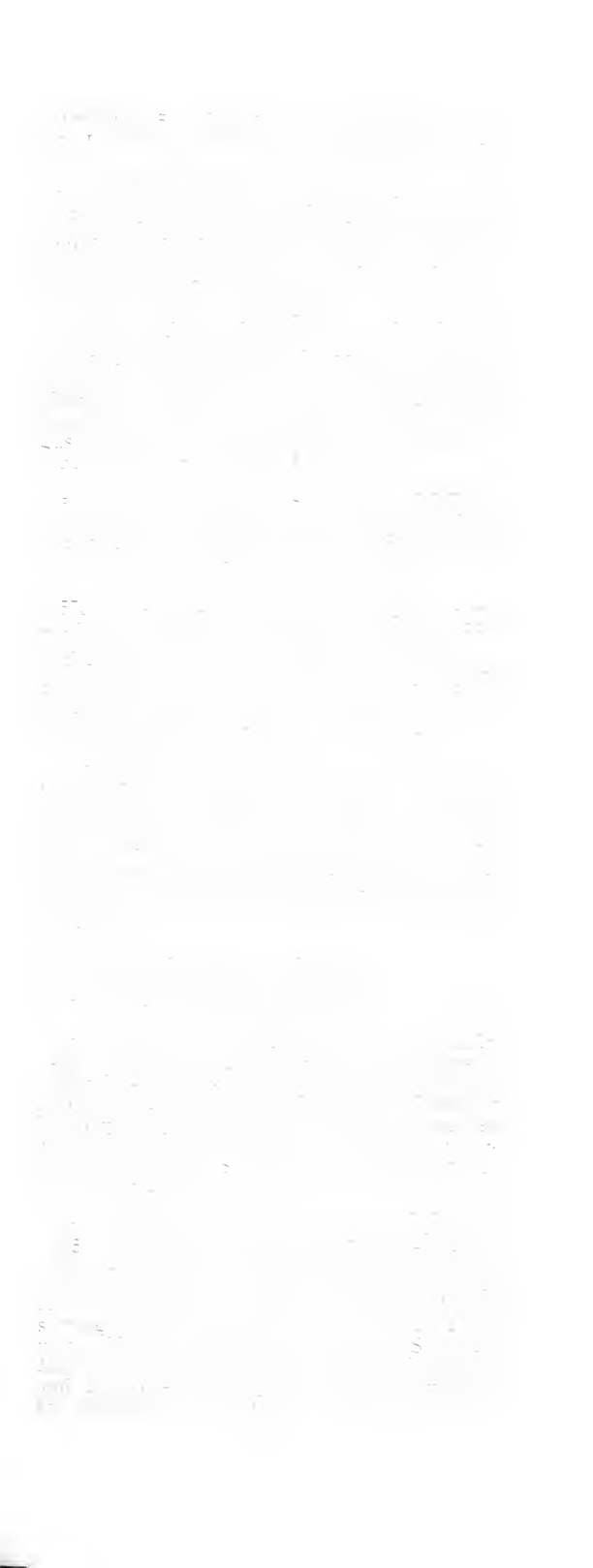
19. POTTER, JAMES BOYD (19). Lieutenant, late United States Navy.

Services: Lieutenant and Navigator *Montauk* from April 28, 1898, to September 15, 1898.

75. POTTS, TEMPLIN M. (75). Lieutenant Commander United States Navy.

Services: Lieutenant *Massachusetts*: on blockade off Santiago.





360 ROBERTSON, THOMAS ROSS

1881. Captain United States Volunteers.  
 Services: Captain, Company "B," 1st Regiment, North Carolina Volunteer Infantry; in part at Jacksonville, Fla., and Savannah, Ga., from July 22 to December 7, 1861. Garrison and at Camp Columbia, Cuba, December 12, 1861, to January 25, 1862.

361 ROSS, M. EUGENE NUGENT

1881. Ensign, U. S. United States Navy.  
 Services: Ensign, 1st Battalion Naval Militia, New York March 1898. March Officer and Det. Officer, Asiatic Squadron, April 22 to May 12; Ensign, United States Navy, May 12; Navigator, Asiatic Squadron, May 25 to September 15, 1898.

362 RUDMAN, ROBERT N. (479). Second Lieutenant United States Volunteers.

Services: Private United States Volunteer Signal Corps, June 15; Corporal, latter part of same; Sergeant, July, 1868; Second Lieutenant, August 12, 1868; Sig. Sergeant Battery "B," 5th Cavalry, at Fort Tison, P. R., August 12; assigned to 9th Company, United States Volunteer Signal Corps.

363 R. E. RAYETTE WASHINGTON

1881. Captain United States Army, retired.  
 Services: Lieutenant Colonel United States Volunteers, 1st Cavalry, 1st Army Corps, July 25 to December 17, 1861.

364 ROONEY, W. R. (405). Lieutenant-Commander United States Navy.  
 No record of services in file.

365 ROOSEVELT, THEODORE (21). President of the United States.

Services: Lieutenant Colonel, 1st United States Cavalry, Cavalry (Rough Riders), July 28 to San Juan campaign; command of the regiment in the battle of San Juan Hill, from July 26 to the morning; promoted Brigadier General, United States Volunteers for gallant conduct in the war.

366 R. S. RICE (181). Lieutenant, late United States Army.

Services: Ensign, Officer and Navigator, Asiatic Squadron, May 25 to September 18, 1898.

367 R. S. RICHMOND (530). Lieutenant, United States Navy.

Services: Surgeon, U. S. Navy and afterward in the Army in Florida and in subsequent to the declaration of peace between the United States and Spain remained in the U. S. Army, chiefly engaged in yellow fever work, until, May, 1902. Restored to active duty, promoted to Medical Director by act of Congress.

498. RUHM, THOMAS FRANCIS (311).  
Naval Constructor United States Navy.

Services: On duty at Mare Island Navy Yard, California, in connection with repairing and fitting out vessels for Pacific and Asiatic fleet, 1898. Naval station, Cavite, Philippine Islands, 1900 to 1901.

396. RUSSELL, ALEXANDER WILSON (333). Ensign, late United States Navy.

Services: Ensign United States Navy. Executive Officer on the *Arctic* from June 30 to August 16, 1898; *St. Louis* from August 16 to 29, 1898.

745. RUSSELL, GEORGE D. (517). Lieutenant Colonel United States Volunteers.

Services: Major (13th Battalion) 22d Regiment, New York Volunteer Infantry, May 24 to November 23, 1898; served at Camp Black, N. Y.; Fort Totten, N. Y. and at Fort Slocum, N. Y.

312. RUSSELL, ROBERT D. (257). Lieutenant United States Volunteers.

Services: Second Lieutenant 12th Regiment, New York Volunteer Infantry, November 9, 1898; First Lieutenant, January 12, 1899; camp duty.

61. RUSSELL, ROBERT L. (64). Lieutenant United States Navy.

Services: Lieutenant on *New Orleans*, blockading coasts of Cuba and Porto Rico; in naval operations off Santiago de Cuba, and co-operating in the landing of the American troops at Daiquiri, Cuba; Prize Master of the captured Spanish steamer *Olinda Rodriguez*; served in the Philippine Islands during the insurrection in the years 1900 and 1901.

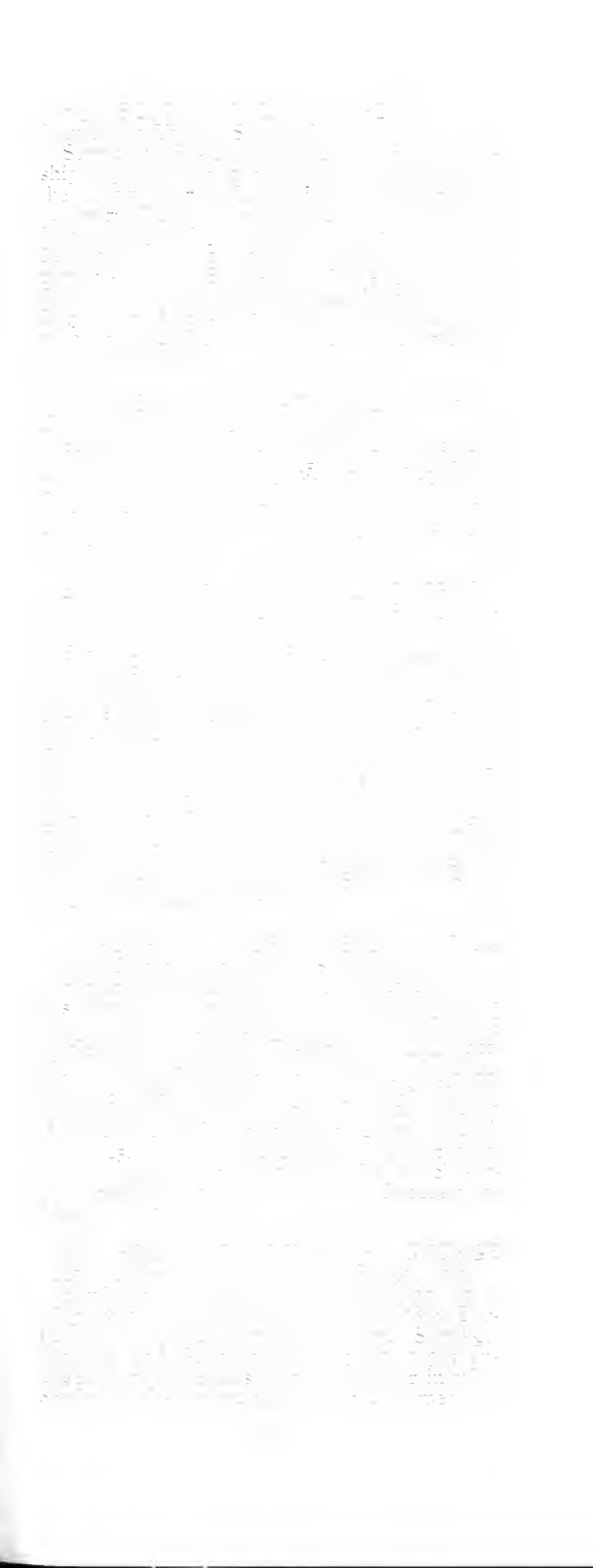
334. RUTHERS, GEORGE W. (270). Captain United States Army.

Services: Captain Company "B," 8th Regiment, United States Infantry, to June 5, 1898; Assistant Mustering Officer, State of Georgia, May 9 to May 17; Aide de Camp to Brigadier General A. S. Burt, United States Volunteers, 1st Brigade, 1st Division, 7th Army Corps, and Quartermaster of Brigade, May 18 to 25, and to the same officer, Acting Inspector and Tactical Instructor of same Brigade, May 25 to August 6, 1898. Major and C. S. V., July 16, 1898.

403. SANGER, WILLIAM CARY (341). Lieutenant Colonel United States Volunteers.

Services: Lieutenant Colonel 203d Regiment, New York Volunteer Infantry. Camp duty; Camp Black, N. Y.; Camp Meade, Pa., and Camp Wetherill, S. C.









65. Assisted in floating and towing the Spanish cruiser *Infanta Maria Teresa* to Guantanamo Bay, where after six weeks of hard labor she was put in repair. Furnished a crew for the cruiser, and when one of her engines in commission, the tugboat having her in tow, started for Norfolk Navy Yard: the cruiser became unmanageable, owing to a heavy sea and cyclones, and after rescuing 114 of our men she was abandoned November 1 off Watling's Island.

223. SLATER, FREDERICK R. (223). Lieutenant United States Volunteers.

Services: First Lieutenant and Battalion Adjutant, 1st Regiment, United States Volunteer Engineers; served in Porto Rico from August 15 to November 18, 1898.

67. SLOAN, ROBERT S. (67). Late United States Navy.

Services: Lieutenant and Executive Officer on the *Strang* until September 24, 1898. Blockade of Havana.

616. SMITH, CLARENCE WILBUR (600). Lieutenant United States Volunteers.

Services: First Lieutenant Company "L," 22d Regiment, New York Volunteer Infantry 3d Battalion; at Camp Black, N. Y. May 2 to June 10, 1898; Millers Point, June 10 to September 23, 1898; Fort Storn, September 23 to November 23, 1898.

389. SMITH, HENRY HUDSON (326). Ensign, late United States Navy.

Services: Ensign United States Navy; Navigator and Ordnance Officer on the *Albatross*, June 23 to September 12, 1898.

800. SMITH, LANTON FONTAINE (529). Lieutenant, late United States Navy.

Services: Lieutenant *Franklin* and *Duric*. On blockade duty on the southern coast of Cuba; was engaged in several bombardments; chased and boarded many vessels; July 7, 1898, took charge of British steamer *Greenan Castle*, prize, to take to Key West; returned to Santiago and Guantanamo Bay, July 19, 1898; *Potomac*, July 20 to August 16, 1898.

844. SMITH, WILLIAM AUGUST FREDERICK (547). Ensign, late United States Navy.

Services: Ensign, United States auxiliary cruiser *St. Louis* from April 26 to September 2, 1898. Engaged in cable cutting and blockade duty at Guantanamo, Santiago and Cape Cruz until June 29, 1898. July 4, received 80 officers and 620 men as prisoners on board to bring to United States. July 21 to August 15, 1898, engaged in transporting troops to Porto Rico and from Cuba to the United States.



27. STODDARD, CHARLES HERBER (27), Captain United States Volunteers.

Services: Captain 71st Regiment, New York Volunteer Infantry, May 10 to November 15, 1898. Private, Corporal, Sergeant and First Sergeant, 29th Regiment, United States Volunteer Infantry, August 26, 1899, to March 22, 1901. In campaigns, Luzon, Marinduque, Masbate and Samar, P. I., 1899, 1900 and 1901.

37. SULLIVAN, HARRY ROLAND (37), Pay Inspector United States Navy.

Services: Paymaster *Wilmington, Pyritan* and *New Orleans* from October, 1898, to November 18, 1899. Engagement: Cardenas: was also with one or two expeditions sent to the relief of the insurgents, north coast of Cuba. Duty at Cavite Naval Station, P. I., during the Philippine insurrection from January, 1900, to October, 1901.

57. \*SUMNER, GEORGE W. (57), Rear Admiral United States Navy.

Services: Captain of the Yard, Navy Yard, New York, July, 1897 to April, 1899.

368. SWAN, GEORGE H. (368), Lieutenant, late United States Navy.

Services: Lieutenant United States Navy in command of the *Cheyenne* from July 1 to August 25, 1898.

476. TAPPAN, BENJAMIN (386), Lieutenant Commander United States Navy.

Services: Lieutenant *Raidigh* in Admiral Dewey's attack on Manila, but afterward commanded *Callao* in attack on Manila; other service in the Philippines during the insurrection.

226. TAYLOR, GEORGE L. (226), Second Lieutenant United States Volunteers.

Services: Sergeant Company "B," 1st Regiment, United States Volunteer Engineers; Second Lieutenant, October 21, 1898.

331. TAYLOR, THEODORE BURNETT (276), Lieutenant United States Army.

Services: Second Lieutenant Company "A," 8th Regiment, New York Volunteer Infantry, May 14, 1898; First Lieutenant, July 6, 1898. Transferred to 12th Regiment, New York Volunteer Infantry, Company "E," November 1, 1898. Captain, January 11, 1899; honorably mustered out, April 20, 1899; served in the United States, and Matanzas and Cardenas, Cuba. First Lieutenant, 27th United States Volunteer Infantry, July 17, 1899; Captain, October 21, 1899; Regimental Adjutant, August 12, 1900; honorably mustered out, April 1, 1901. Served in the Philippines. First Lieutenant, 11th United States Cavalry, February 2, 1901.





559. T. B. LEWIS EDGAR (448) Ensign, late United States Navy.

Services: Ensign United States Ship *Sybil*. June 22 to October 13, 1898.

484. UBERROTH PRESTON HENRY (391). Lieutenant United States Revenue Cutter Service.

Services: Second Lieutenant United States Steamer *Cortina*, attached to Pacific Squadron. In June, 1898, took station at San Diego, Cal.

51. UNDERHILL FRANCIS T. (51), Captain United States Volunteers.

Services: First Lieutenant and Regimental Quartermaster 201st Regiment, New York Volunteer Infantry. Camp Block and Camp Meade, Pa. Captain, September 28, 1898.

392. VERMILYE FREDERICK MONTGOMERY (329). First Lieutenant United States Volunteers.

Services: First Lieutenant and Regimental Adjutant 12th Regiment, New York Volunteer Infantry. In camp at Peekskill, N. Y.; Lexington, N. C.; Chickamauga Park, Ga.; Americas, Ga., and Marianas, Cuba.

512. VIELE LAURICE A. (507), Captain United States Volunteer Engineers.

Services: First Lieutenant 1st United States Volunteer Engineers, June 7, 1898. Served with the Regiment at Peekskill, N. Y., and in Moro River until mustered out of the regiment on January 25, 1899.

322. WADSWORTH ALBION W. (267). Commander United States Navy.

Services: Commander United States Navy command of the 8th Coast Defence System from April 6, 1898, to the close of the war with Spain.

311. WALKERIGHT J. W. TRAN MAY-LEW (259). Captain United States Volunteers.

Services: Captain Company "E", 12th Regiment, New York Volunteer Infantry, May 13, 1898; served with the regiment in camp at Peekskill, N. Y.; Chickamauga Park, Camp Thomas, Tenn., and Camp Hamilton, Lexington, Ky.

575. WALKER GEORGE F. (171), Major United States Volunteers.

Services: Captain of Artillery, Light Battery "D", Georgia. In Camp Griffin, Ga., May 1, 1898; Chickamauga, Ga., June 15 to September 2, 1898; Fort Mifflin, Pa., to October 17, 1898.

577. WALKER WILLIAM LOUIS (314). Ensign, late United States Navy.

Services: Assistant Engineer United States Navy, 1st Island Navy Yard, June 13; Asiatic Station, July 6; 2d station, August 2, 1898. December 25, 1898.

170. WALLACE, ALLEN BRADFORD (170), Lieutenant Colonel United States Volunteers.

Services: Major 4th Regiment, New Jersey Volunteer Infantry, June 30, 1898; Camp Sea Girt, N. J., June 30 to September 10, 1898; Middletown, Pa., September 11 to November 11, 1898; Greenville, S. C., November 14, 1898, to March 3, 1899; Lieutenant Colonel, February 26, 1899.

536. WALLACE, HENRY (425), Major and Surgeon United States Volunteers.

Services: Major and Surgeon of the 47th Regiment, New York Volunteer Infantry; served with the regiment at Camp Black, N. Y., and at Fort Adams, R. I.

209. WALLACE, RUSH R., Jr. (209), First Lieutenant United States Marine Corps.

Services: Naval Cadet *Marblehead*, August 6 to October 14, 1898. Blockading and general duty until early in September, 1898.

174. WALLOWER, ALLAN B. (174), Lieutenant United States Volunteers.

Services: Second Lieutenant 12th Regiment, Pennsylvania Volunteer Infantry. Camp in Pennsylvania to May 19, 1898; Falls Church, Va., to August 13, when sent to Mary M. Packer Hospital; rejoined regiment and was mustered out October 29, 1898.

144. WARBURTON, EDGAR TOWNSEND (144), Chief Engineer United States Navy. (Deceased.)

Services: Lieutenant Commander, March 3, 1899, *New Orleans*; Chief Engineer, April 21, 1898, to July 5, 1899; blockade of Santiago de Cuba, May to June, 1898. Engagements: Bombardments of the batteries of Santiago de Cuba by the fleet, May 31, June 6 and 16, 1898; by the *New Orleans* alone, June 14, 1898. Landing of the Army at Daiquiri, June 22, 1898. Blockade of San Juan, P. R., July 14 to August 16, 1898. Capture of the *Olinde Rodrigues*, July 17, 1898.

517. WARD, FRANCIS GRANT (403), Colonel United States Volunteers.

Services: Lieutenant Colonel 202d Regiment, New York Volunteer Infantry, June 28, 1898, to April 15, 1899. At Camp Black, N. Y., and Camp Meade. In Havana, December 9, 1898, and proceeded to Guanajay; remained there until March 7, 1899.

211. WARD, GEORGE GRAY, Jr (211), Major and Surgeon United States Volunteers.

Services: Major and Surgeon 12th Regiment, New York Volunteer Infantry, May 6 to September 8, 1898.

405. \*WATERMAN, RUFUS (343), Lieutenant, late United States Navy.

No records of services on file.

187. **JOHN W. R. ...**  
Services: Captain with A. R. M. ... Pennsylvania ...  
... the ... ... July ...

188. **JOHN W. R. ...**  
Services: ... ... United ...  
... ...  
... Engineer of the ... from ... July ...  
... December 12, 1898.

189. **JOHN W. R. ...**  
Services: ... ... New York ...  
... ... May 2 ...  
... ... September 2 ...  
... November ...

190. **JOHN W. R. ...**  
Services: ... ...  
... ...  
... ...  
... ...  
... August 12, 1898.

191. **JOHN W. R. ...**  
Services: ... ...  
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192. **JOHN W. R. ...**  
Services: ... ...  
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193. **JOHN W. R. ...**  
Services: ... ...  
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194. **JOHN W. R. ...**  
Services: ... ...  
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195. **JOHN W. R. ...**  
Services: ... ...  
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of the 3rd Army Corps. Served in the 1st commanded Troop, 1st Cavalry at Las Guasimas, June 24, 1898. Also took part in the battle of San Juan, July 1 and 2, 1898, where he was wounded. Served in the United States until the end of the war.

587. WILLIAMS, WILLIAM (1891), Assistant Naval Constructor United States Navy.

Services: Naval Cadet on the Massachusetts from April 4 to September 5, 1898. Participated in the search for Admiral Cervera's Squadron, blockade of San Juan and the expedition to Porto Rico.

747. WILSON, DOUGLAS MORRIS (1819), Lieutenant United States Navy, retired.

Services: Lieutenant United States Navy. At United States Gun Foundry, Navy Yard, Washington, D. C.

711. WILSON, GEORGE HOWARD (1812), Lieutenant United States Volunteers.

Services: Lieutenant 75th Regiment New York Volunteer Infantry. Engagements at Las Guasimas, July 24, 1898; battle of San Juan, San Juan, July 1, 2 and 3, 1898.

200. WILSON, FREDERICK ERNEST (1800), Lieutenant United States Volunteers.

Services: Major 10th Regiment Pennsylvania Volunteer Infantry, May 5, 1898, 1st Brigade, 1st Division, 1st Army Corps; in Porto Rico campaign. At the advice guard in the invasion of Porto Rico. Commanding the 1st Battalion, 10th Regiment, August 9, in the engagement at Coama against the 35th Spanish regulars. Captured the only Spanish battle flag taken on the island in an engagement. Recommended for Brevet by General Miles in the field by personal letter to the Secretary of War. Promoted Lieutenant Colonel, October 12, 1898.

289. WISE, WILLIAM CLINTON, Jr. (2310), Naval Cadet, late United States Navy.

Services: Naval Cadet 1896 from August 5 to September 19, 1898; Franklin from September 25 to October 5, 1898.

101. WOLTZ, JAMES MITCHELL (3301), Lieutenant United States Volunteers.

Services: Second Lieutenant and Battalion Adjutant, 7th Ohio Volunteer Infantry, May 13, November 6, 1898. In camp at Camp Russell A. Alger, Va.; Camp Geo. H. Meade, Pa., and Camp Bushnell, Columbus, Ohio.

80. \*WOODRUFF, EZRA (80), Lieutenant Colonel and Deputy Surgeon General United States Army, retired.

Services: Surgeon at Fort Trumbull, Conn., conducting the physical examination of the men

forming the 35 Connecticut Volunteer Infantry and the Yale Light Battery; also engaged in the muster out of the 22d New York Volunteer Infantry at Fort Stocum, N. Y., and a detachment of Rhode Island troops in October and November 1898. Was on duty for four months at Camp Meade in 1899.

35. WOODSIDE, EDMUND LORD  
189. Lieutenant United States Volunteers.

Services: First Lieutenant 4th Regiment, United States Volunteer Infantry (Immunes), in camp at Fredericksburg, Va.; Jacksonville, Fla., February 21, 1899. Post Adjutant 4th United States Volunteer Infantry (Immunes), Manzanillo, Cuba. Adjutant 1st Battalion, 4th United States Volunteer Infantry, May 4, 1899. Mustered out with regiment June 9, 1899, at Camp Meade, Pa.

38. WOODWARD, CHRISTOPHER  
HENRY RABORG (198), Lieutenant United States Volunteers.

Services: First Lieutenant 69th Regiment, New York Volunteer Infantry, at Camp Black, N. Y.; Camp Geo. H. Thomas; Tampa, Fla.; Fernandina, Fla., and Camp Joe Wheeler, Jacksonville, Fla.

42. YOUNG, HENRY A. F. (187), Captain United States Volunteers.

Services: Second Lieutenant 7th Regiment, New York Volunteer Infantry, May 12, 1898; served with the regiment in Porto Rico, October 1898, to March 1899; Captain, November 1, 1898.

46. YOUNG, WARNER S. (190), Captain United States Volunteers.

Services: Captain Company "H," 9th Regiment, New York Volunteer Infantry, May 20 to November 1, 1898. Camp Townsend, Peekskill, N. Y., April 2 to May 25, 1898; Camp Geo. H. Thomas, Chickamauga Park, Ga., May 27 to September 20, 1898.

47. ZEEB, GEORGE C. (11), Lieutenant, U. S. Navy.

Services: Lieutenant, U. S. Navy, on duty guarding the mine fields in New York Bay from June 28 to August 26, 1898; Elkhart, on duty at Fort Monroe, Va., to September 28, 1898.

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